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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/939,592	08/28/2001	Yoshio Komaki	018656-243	3266
759	90 10/31/2006	EXAMINER		
Platon N. Man	dros	DANG, DUY M		
	wecker & Mathis, L.L.P.	ADTIBUT	DA DED MUMDER	
P.O. Box 1404		ART UNIT	PAPER NUMBER	
Alexandria, VA 22313-1404			2624	
			DATE MAILED: 10/31/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appl	ication No.	Applicant(s)				
Office Action Summary		09/9	39,592	KOMAKI, YOSHI	KOMAKI, YOSHIO			
		Exan	niner	Art Unit				
		Duy I	M. Dang	2624				
Period fo	The MAILING DATE of this commun or Reply	ication appears o	n the cover sheet	with the correspondence a	ddress			
A SH WHIO - Exte after - If NO - Failu Any	IORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE N ensions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this come of period for reply is specified above, the maximum sture to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AAILING DATE O of 37 CFR 1.136(a). In nunication. atutory period will apply will, by statute, cause the	F THIS COMMUN no event, however, may and will expire SIX (6) Mine application to become	NICATION.  a reply be timely filed  ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).	,			
Status								
1) 又	Responsive to communication(s) file	ed on <i>8/4/06</i> .						
· <u> </u>	•	2b)⊠ This action	is non-final.					
3)□		·		atters, prosecution as to th	e merits is			
<i>,</i> —	closed in accordance with the practi		•	• •				
Disposit	ion of Claims							
	Claim(s) <u>1-10 and 12-20</u> is/are pend	ling in the applica	ation.					
,_	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
· · · —	Claim(s) <u>1-10 and 12-20</u> is/are reject	ted.						
7)	Claim(s) is/are objected to.							
8)[	Claim(s) are subject to restrict	ction and/or electi	ion requirement.					
Applicat	ion Papers							
9)[7]	The specification is objected to by th	e Examiner						
	The drawing(s) filed on is/are		or b)□ objected t	o by the Examiner.				
/—	Applicant may not request that any obje		_	-				
	Replacement drawing sheet(s) including			, ,	FR 1.121(d).			
11)[	The oath or declaration is objected to	by the Examine	r. Note the attach	ed Office Action or form P	TO-152.			
Priority (	under 35 U.S.C. § 119							
	Acknowledgment is made of a claim All b) Some * c) None of:	for foreign priorit	y under 35 U.S.C.	§ 119(a)-(d) or (f).				
	1. Certified copies of the priority	documents have	been received.					
	2. Certified copies of the priority	documents have	been received in	Application No				
	3. Copies of the certified copies	of the priority doc	cuments have bee	en received in this National	Stage			
	application from the Internation	•	, ,,					
* (	See the attached detailed Office action	n for a list of the	certified copies no	ot received.				
Attachmer	``		_					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (F	OTO 048'		Summary (PTO-413)				
	æ of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 or			o(s)/Mail Date f Informal Patent Application (PT)	O-152)			
	er No(s)/Mail Date	· •	6) 🗌 Other: _					

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## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 06, 2006 has been entered.

2. Claims 1-10 and 12-20 are currently pending and a new ground of rejections are presented in this Office action.

## Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 1-3, 6-10, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sekine et al. (USPN 6,049,354. Referred as "Sekine" hereinafter) in view of White et al. (USPN 5,721,427. Referred as "White" hereinafter).

The advanced statements set forth in paragraph 3 of the previous Office Action mailed on November 11, 2005 are incorporated herein.

The advanced statements set forth in paragraph 3 of the Final Office action mailed on April 07, 2006 are incorporated herein.

With regard to the scope of the newly added features "correction process is maintained for each frame image until next scene change information acquired" to claim 1 as a representative claim, Sekine teaches these claimed features as described in figure 3. That is, the

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image-shake correction depicted at S4, for example, performs image correction until the incoming image immediately follows a scene change as depicted at S3 and described at column 5 lines 1-45. The same analysis is also applied to the amended claims 7, 9-10, and 12.

5. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sekine in view of White as applied to claims 1-3, 6-10, and 12 above, and further in view of Horiike (USPN 6,353,683. Referred as Horiike hereinafter).

The advanced statements as set forth in the preceding paragraph 4 are incorporated herein. It is noted that the combination Sekine and White fails to specifically teach the features of "wherein the acquiring portion generates the scene change information based on a differential image of an image of a current frame and a predicted image of the current frame predicted from an image of a previous frame from the current frame" as required by claim 4. However, such claimed features are well known in the art as evidenced by the patent to Horiike.

Horiike teaches, in the same field of invention that of image prediction, wherein the acquiring portion (i.e., 100 of figure 1) generates the scene change information based on a differential image of an image of a current frame and a predicted image of the current frame predicted from an image of a previous frame from the current frame (See figure 1. Note that the "Bgd" outputted from subtracter 106 corresponds to the so called "scene change information"; the input "Pg1" to subtracter 106 from calculation unit 120 corresponds to the so-called "predicted image of the current frame predicted from an image of a previous frame from the current frame"). The motivation to do so is to reduce calculation because only the difference is coded instead of the whole image thereby, reduce data coded for transmission and receiving. This also reduces temporal redundancy as suggested by Horiike in column 1 lines 15-25.

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate such claimed features as taught by Horiike in combination with the combination of Sekine and White for that reasons.

Regarding claim 5, Horiike further teaches wherein the determining portion determines a correction process based on the predicted image (i.e., the subtracter 106 and motion compensation 122 in figure 1 refer to the so-called correction process).

6. Claims 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sekine in view of Horiike.

The advanced statements as set forth in the paragraph 4 of the Office action mailed on November 01, 2005 with regard to Sekine as applied to claims 1-3, 6-10 and 12 are incorporated herein.

While Sekine fails to specifically teach the features of "wherein the acquiring portion generates the scene change information based on a differential image of an image of a current frame and a predicted image of the current frame predicted from an image of a previous frame from the current frame" as further required by claim 13, Sekine does teach the utilization of inter-frame coding as described in column 17 lines 31-33. However, such claimed features are taught by Horiike for example.

Horiike teaches, in the same field of invention that of image prediction, wherein the acquiring portion (i.e., 100 of figure 1) generates the scene change information based on a differential image of an image of a current frame and a predicted image of the current frame predicted from an image of a previous frame from the current frame (See figure 1. Note that the "Bgd" outputted from subtracter 106 corresponds to the so called "scene change information";

the input "Pg1" to subtracter 106 from calculation unit 120 corresponds to the so-called "predicted image of the current frame predicted from an image of a previous frame from the current frame"). The motivation to do so is to reduce calculation because only the difference is coded instead of the whole image thereby, reduce data coded for transmission and receiving. This also reduces temporal redundancy as suggested by Horiike in column 1 lines 15-25.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate such claimed features as taught by Horiike in combination with Sekine for that reasons.

Regarding claim 14, Horiike further teaches wherein the determining portion determines a correction process based on the predicted image (i.e., the subtracter 106 and motion compensation 122 in figure 1 refer to the so-called correction process).

7. Claims 15-19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sekine in view of White as applied to claims 1-3, 6-10, and 12 above, and further in view of Prentice et al. (US Pub 2003/0030729. Referred as "Prentice" hereinafter).

The advanced statements set forth in the preceding paragraph 6 with regard to the combination of Sekine and White as applied to claims 1-3, 6-10, and 12 are incorporated herein.

Regarding claim 15 as a representative claim, the combination of Sekine and Horike fails to teach wherein the correction process is for correcting the image in terms of at least one of tone, hue, chroma, brightness and contrast. However, such claimed features are disclosed by Pretence, figure 7, for example. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate claimed features as taught by

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Prentice in combination with the combination of Sekine and White in order to allow for optimization of processing in separate modes and enhance image quality visually.

Likewise, claims 17-19 are also rejected for the same reasons as set forth in claim 15 above.

8. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sekine in view of Horiike as applied to claims 13-14 above, and further in view of Prentice et al. (US Pub 2003/0030729. Referred as "Prentice" hereinafter).

The advanced statements set forth in the preceding paragraph 6 with regard to the combination of Sekine and Horiike as applied to claims 13-14 are incorporated herein.

Regarding claim 20, the combination of Sekine and Horiike fails to teach wherein the correction process is for correcting the image in terms of at least one of tone, hue, chroma, brightness and contrast. However, such claimed features are disclosed by Pretence, figure 7, for example. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate claimed features as taught by Prentice in combination with the combination of Sekine and Horiike in order to allow for optimization of processing in separate modes and enhance image quality visually.

### Claim Rejections - 35 USC § 112

- 9. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 10. Claim 19 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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The recitation of "the image sensing apparatus of claim 13" at line 1 of claim 20 is unclear, indefinite, and improper antecedent basis because no image sensing apparatus is recited or defined in any of the preceding claim language so that it is not clear how this apparatus relates to all other claimed invention.

## Claim Rejections - 35 USC § 101

11. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

12. Claim 10 and its dependent claim 18 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The recitation of "a computer-readable recording medium for storing a computer program" in lines 1-2 of claim 10 does not necessarily invoke "a computer-readable recording medium encoded/stored with a computer program" as required by the 101. See page 53 of the USPTO "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" (Official Gazette notice of 22 November 2005). Amendment including such language would make claim statutory.

Claims 18 is also rejected for the same reasons.

#### Conclusion

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy M. Dang whose telephone number is 571-272-7389. The examiner can normally be reached on Monday to Friday from 6:00AM to 2:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew C. Bella can be reached on 571-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

dmd 10/06

DUY M. DANG
PRIMARY EXAMINER